

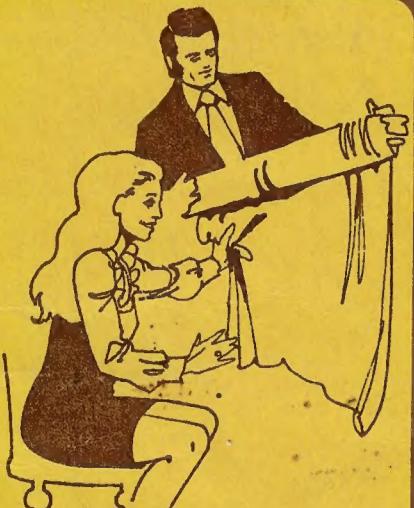
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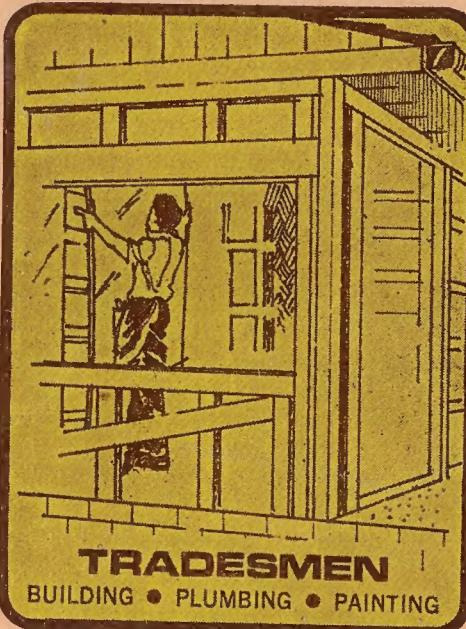
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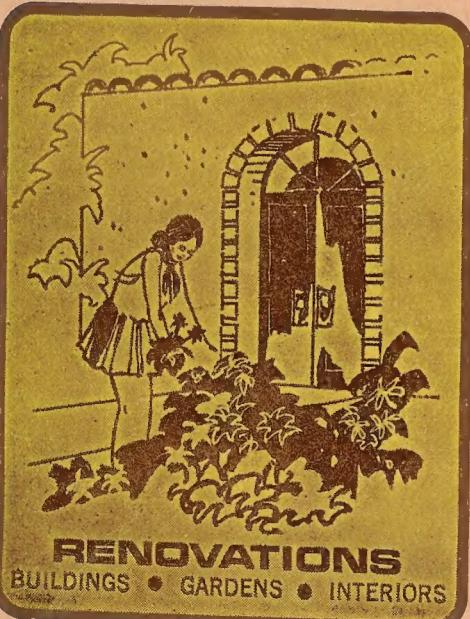


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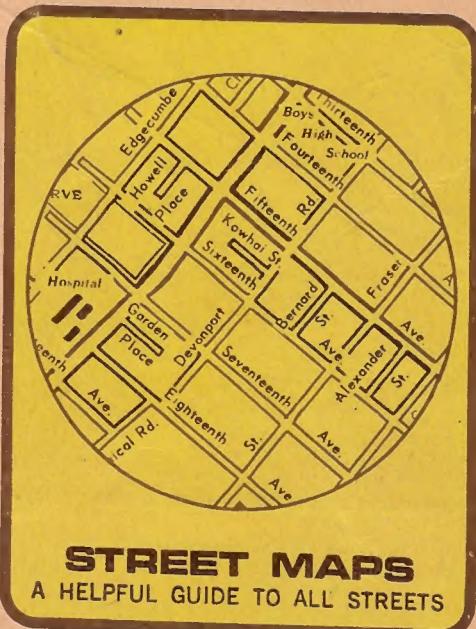


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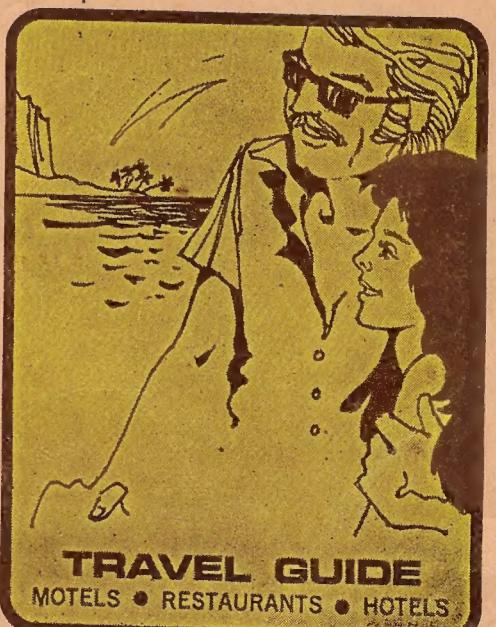
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# PLAN YOUR GARDEN FOR BEAUTY & UTILITY



**W**HATEVER one's attitude towards the garden, the rewards are still the same, spread piecemeal through the years in occasional moments of awareness. The garden lover can gain peace and pleasure, the industrious type can reap better crops and exercise, and very few are unappreciative of the sight of well laid out gardens and lawns.

Planning before every move, using chemicals and fertilisers and making use of power tools is the modern way of taking the hard work out of gardening.

By the same coin, contemporary garden layout can help lessen burdensome chores and allow more time for golf, bowls, fishing or just lazing around with a cool drink.

#### BALANCE AND COLOUR:

Where once gardens were rigidly formal with soldier-like formations of flowers and beds mathematically precise, the up-to-date approach strikes at contrast — flowing lines, bordered lawns, wide paths and minimum ornamentation. Upkeep need only be on a limited scale.

The principles of garden layout are similar to those applied when interior decorating — simplicity, balance and colour harmony. Broadly speaking, if those principles are adopted, the garden will serve its ultimate purpose as a place to relax in rather than be master of a reluctant householder.

Colour harmony can be achieved by grouping of flowers; the foliage serves as a common background to tie the composition together. Bright splashes of colour here and there are more effective than straggly lines of flowers. The principle is boldness. If flowers are to be planted, make a show of them, range them according to height against a background. Grouping flowers makes arresting patches of colour to an otherwise nondescript garden.

Colour contrast plays a role in good layout design. While flower clusters of different colour and type make an attractive blaze of colour, single colours also bear consideration. For example, white carnations or roses against a time-stained fence, red roses against white trellis. There are endless variations.

#### PLAN AHEAD

Generally the best laid out gardens are conceived before the first spadeful of soil is turned. The oft accepted idea to plan as you go has many disadvantages, principally because it leads to impulse buying which in turn can crowd a garden with trees and shrubs whose only distinction is that they were "specials". Such "bargain" trees and shrubs take up valuable space needed for finer and more productive trees.

Whatever stage a garden has been developed to, it can still be modified. One method of layout, and perhaps the best, is to draw a plan of the section, mark in the house and compass points (to indicate sheltered positions) and plan each move.

Mark on the plan good or bad features of the area

adjacent to the garden which can be seen from windows in the most used rooms in the home. It must be remembered that the view from the window, kitchen or lounge is the most important of all to the homemaker. Good features can be enhanced, bad features can be hidden by bushy shrubs and trees.

#### TREE PLANTING

The next step is to plan where the trees will be planted — hardiness and purpose being the main considerations. Hardy trees will stand up to prevailing southerlies, most ornamental and semi-tropical trees thrive in sheltered locations.

For maximum effect grow ornamental trees within sight of the windows of the home and sufficiently far back for them to be seen in their entirety. If they are deciduous (leaf shedding) keep them well away from the neighbours' house to avoid blocking roof gutters.

Some fruit trees of the same type can be grown in small groups but must be pruned to the same height to prevent the most robust tree from taking over.

Shade trees can be an embarrassment of riches when they reach maturity, overshadowing desired sunny aspects and casting gloom over a home. Select the type of shade tree, find out its height at maturity and stand a pole up equal to the tree height when full-grown — the shadow cast by the pole will indicate the length of shade the tree will throw.

#### ALLOW SPACE

One factor often overlooked is that if a tree is planted too near a house it can interfere with foundations, paths and pipes, obscure a window and be deprived of its fair share of moisture. Artistically, too, there should be a gap between the precise lines of a house and the free-form lines of a garden.

A common fault among gardening beginners is planting trees too close together. While the trees are small they appear well spaced; as they mature, the weaker tree gives way to the stronger. As a rule of thumb, allow room for root expansion equal to the spread of the tree when fully grown. Information can readily be obtained at the nearest nursery relating to a particular tree.

#### OPEN OR ENCLOSED

Gardens fall into two main categories — open or enclosed. The American concept of gardens is to make them blend in with the surrounding environment in a park-like array — fences are frowned on as anti-social.

New Zealanders, like their English forbears, prefer some form of enclosure but generally compromise with a low fence or hedge. The important point to remember is that an enclosed garden offers more scope for finer develop-

ment because a background of trees and shrubs can be grown. On the other hand, the open garden appears much larger than it really is if kept fairly simple.

#### FEATURES

A well situated feature in any garden, be it a stone lantern, ornamental tree, rockery, sundial or a glass float, will arrest attention and therefore needs no distraction near. In this regard the Japanese are past masters, being able to make a garden complementary to one object. A garden with too many features lacks visual appeal, the eye finds difficulty



in focusing on any one object, and as a consequence none are appreciated for their individual qualities. A simple rule is that nature needs little adornment.

Getting the best returns from trees and shrubs in your garden is largely a matter of supplying what they need at the right time and planting them in the right location. Some trees need nursing along, others are so sturdy they can survive even the most indifferent treatment; nevertheless all trees benefit from regular attention.

When to plant is a question frequently asked of nurserymen. It can be accepted that the right time is when nurseries offer their products for sale; however, there are a few fine distinctions which aid tree growth immensely.

Most trees and shrubs are best planted in early autumn, the exception being citrus trees and other tender types, which are best planted in spring. Autumn planting makes a lot of difference to the growth rate. The earth is still warm and there is an abundance of water — two factors to encourage root growth. Although there is little, if any, top growth, the roots are well prepared to surge outwards by spring. It is also in the spring that the upper growth of the tree starts developing. Test comparisons between autumn and spring planted trees have shown the autumn planted trees to be able to stand up to the demands of summer weather.

Although successful tree growing is a science, the basic formula is easily understood and there is no reason why any tree should not survive transplanting from the nursery to the home garden. A nursery grown tree is the best investment because it is grown in rich soil and tended by experienced personnel. Because trees are considered commonplace the purchase price is often regarded as high, yet a tree which gives a lifetime of service costs no more than an evening's entertainment, even less, in fact.

Most trees and shrubs are sold with balled roots, others with bare roots. Balled rooted plants are more able to withstand the shock of transplanting because the roots are surrounded by soil to which they have adapted themselves and also because the hessian wrapping cases offer some protection against sunlight, which soon dries the roots. In both cases, treat the roots gently, knocks and excess movement can easily kill the plant.

#### PLANTING TECHNIQUE

Dig a hole twice the diameter of the plant roots, fill it with water; if the water drains slowly away drainage must be improved by digging deeper and adding a few stones or pieces of tile. Partially fill the hole with fertilised soil and place a stake a few inches away from where the balled root will be. The stake should stand in the weather side.

Place the balled root on the fertilised soil and partially fill the hole; loosen but do not unwrap the hessian around the top of the roots, then fill the hole. Tamp the soil firmly but not to the extent where the roots may be damaged, and water the plant. An extra refinement is to make a rim of soil around the plant for irrigation.

When staking the plant, do not pull it towards the stake or it may grow bent. A figure eight tie with string or a piece of wide material will retain the plant. Heavy clamping on the stem or trunk will cause damage. The importance of staking cannot be overlooked. Without a stake a young tree or shrub is at the mercy of the wind, which will loosen roots.

Before planting bare roots, give the roots a good soaking. When placed in the hole, the centre of the roots should rest on a mound of soft soil — the roots should extend outwards according to their natural inclination. Stake in the usual method.

In the event of a plant having to wait to be transplanted, heel it into the ground by laying the plant on its side and the roots in a shallow hole, cover the roots with soil and keep them moist. In all cases of transplanting and heeling, roots must be kept out of the sunlight and handled with great care.

Most trees are best kept shaded for a few days after transplanting; a cardboard box with both ends removed or a tea chest serves the purpose admirably. A point of note when planting trees or shrubs is to face the best side of it where it will be seen most.

As outlined earlier, there is a perfect location in the garden for each type of tree; experimentation is costly. If a tree dies, pull it out and find out the cause — it may be a disease, soil deficiency, insects or just neglect. In any case it is the loss of an investment, a fact which nurserymen, too, have learned when entire crops of plants had to be destroyed, hence their regular use of costly fertilisers and insecticides.

#### FEEDING YOUR TREES

When children are neglected there is a public outcry, yet trees, which give so much in the way of ornamentation, fruit and shade are frequently neglected. Regular feeding is much more acceptable to a tree than sentimental talk about its finery. There are various methods of feeding: through the leaves by spraying during cloudy, damp weather — sunny weather tends to dry the fertiliser before it can be absorbed; root plug feeding by boring holes around the tree and feeding in fertiliser washed down with water and surface feeding — by spreading fertiliser around the trunk and irrigating.

When root or surface feeding, make sure the root tips, which are hairlike, get the benefit of the fertiliser; they usually extend to the perimeter of the upper growth, known as the drip-line.

With such prevailing interest in home gardening, especially tree planting, manufacturers have gone to great lengths to produce fertilisers to suit all plants. The bewildering array of fertilisers in stores consists of a few basic chemicals and trace elements mixed to varying degrees.

Not always appreciated by the home gardener is that a knowledge of fertilisers is a money-saver, basic chemicals can be purchased in bulk and mixed at home. Instant fertilisers too have their place, giving plants a quick boost before embarking on a long-term feeding programme in very much the way pep pills are used by adults.

#### PRUNING BASICS

Pruning controls growth, helps maintain plant health and improves the quality of fruit. Each tree should be studied closely before pruning commences (at the end of the fruit and flowering season). Much of the disease and insect infestation of trees can be attributed to saw-happy enthusiasts who lop branches with thoughtless abandon and neglect to seal the exposed tips.

Inward growing branches should be removed before they start rasping on other branches.

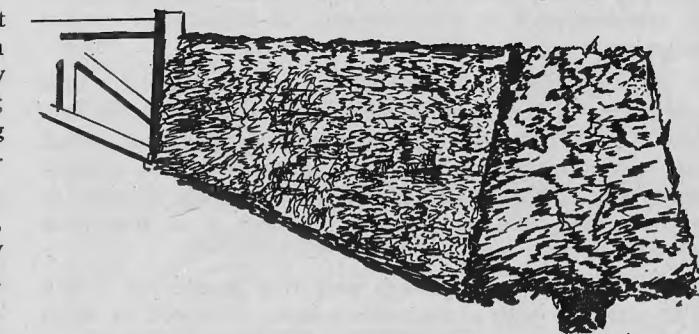
If a branch needs cutting back, make the cut just above a bud pointing in the desired direction. Never leave a portion of the cut branch beyond the bud.

Removing a heavy branch often rips bark from the trunk as it falls. This can be prevented by making an undercut. Do not try to make a tree conform to a shape other than its natural one. While there is considerable scope for shaping some ornamental trees, other trees eventually revert to their original shape.

#### HEDGES

Hedges make excellent windbreaks, allow privacy and also shut out undesirable views. They are surprisingly cheap to buy in quantity and can take a lot of punishment. For a low ornamental hedge ask for dwarf types; they can be controlled with little effort. Growing the taller types when a low hedge is needed creates the problem of control; eventually they outpace the gardener and grow to their natural height.

Tall hedge plants should be spaced three feet apart. Trim the foliage to taper at the top, thus giving the lower foliage an opportunity to obtain a fair share of sunlight.

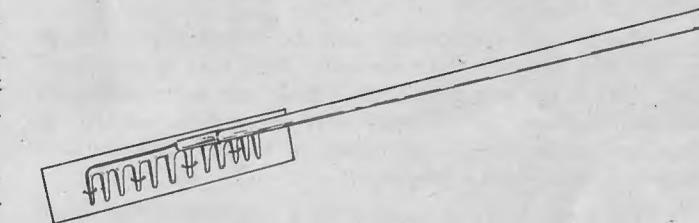


Trim your hedges wider at the base

#### LAWNS

If most husbands had their way, gardens would be covered in plastic lawn and mowing machines stored away for the "duration". Yet even the most indifferent home gardener will admit to a feeling of pleasure at seeing his garden lawn freshly cut.

It is now possible to have a near perfect lawn with little effort, hand weeding is a thing of the past; motor mowers can make superfine blade cuts; fertilisers can be applied in a few minutes and watering, nearly always a



A simple lawn leveller

tiresome chore, can be reduced to simply turning on a tap. The secret of a good lawn lies in the initial effort; thereafter maintenance can be run on strictly scientific lines, demanding more thought than physical labour.

While home gardeners may eschew having a perfect lawn, scientists are bringing nearer the day when grass need never be cut. New Zealand's own native plant — dichondra or Mercury Bay weed — is the nearest advance in this direction, needing cutting but twice a year.

## LAWN PREPARATION

Short of laying tiles or some other drainage material, the best lawns have a slight pitch to prevent waterlogging. On steep hillside gardens, terracing is often the answer, but an outward pitch is still necessary to carry away surplus rain water.

The ground should be well dug over and given a light application of lime which counters over-acidity in the soil. Also dig in untreated sawdust and superphosphate which aids root development. The preliminary work is a summer chore which allows time for the soil conditions to settle in before sowing time in autumn, when there is an abundance of rain and still some warmth in the soil.

A frequent mistake when preparing ground for a lawn is to make do with a minimum amount of topsoil to attain a level. Soil is scraped off a hard subsurface and spread elsewhere; later, when the grass is established, bald patches appear because the roots are confined to a few inches depth. Given the right soil, grass roots can grow to a depth of three feet.

Buying topsoil is not always an effective remedy because of the quality factor; some soil is described as topsoil whereas it is actually subsoil; colour is not always an indication of quality. Look for surface debris such as grass roots, leaves and twigs, sure signs that the purchased soil really is topsoil.

After rough levelling, peg out the lawn area to its intended level, remove stones and break up lumps.

Before rolling the lawnbed, trail a T-shape leveller back and forth to flatten high and low spots. A simple leveller can be made by attaching a piece of 3 x 1 timber to the head of a rake. The tines fit into a slot and are held in place by two pieces of wood (see illustration). An alternative leveller is a 3 x 4 duckboard weighed down with rocks or young children — a novel introduction to dirt gardening. The duckboard is dragged by means of a rope joined at two corners of the board.

The levelled surface can then be rolled; the soil must be dry or it will adhere to the roller. Roll first in one direction, then across at a right angle. Fill in any depressions with screened soil and lightly rake over the entire lawnbed. A fine application of lawn fertiliser is recommended at this stage to give the seed a good start.

Sow seeds in strips marked by a length of string. Birds can be deterred by coating the seeds in red lead. A light raking and rolling after sowing will give the seeds an opportunity to come into close contact with the soil.

- Fence off the area from children.
- Keep the lawnbed moist.
- Cut grass when blades curl.
- Hand weed when grass is one inch high.

A point of economy when purchasing grass seed is to buy the best quality; the seeds are usually smaller and there are many more hundreds to the pound weight than a similar weight of coarse seeds.

It sometimes happens that an established lawn becomes uneven; low spots can be brought up to the overall level by first cutting the grass as low as possible, then rake the area and fill to the required level, roll the soil and complete sowing as earlier prescribed. High spots, too, can be treated

in a similar manner, but care should be taken to ensure there is sufficient topsoil for the grass roots to develop.

## MOTOR MOWERS

The motor mower without a doubt is the hardiest workhorse in the garden. Even subjected to the harshest treatment it rarely complains. It is sometimes used to slice rocks, cut off high spots and as a battering ram against a fence where grass is reluctant to be trimmed. Few home gardeners are unable to get a motor mower started when it occasionally goes on strike.

A few points on maintenance can make all the difference. Regularly check all nuts and bolts for tightness. Clean the air filter after each mowing — dust acts as an abrasive and can reduce the life expectancy of the machine by half. Keep the spark plug clean and check gap occasionally.

Have the rotary blade regularly sharpened. An unevenly balanced blade, caused by inaccurate sharpenings, results in vibration and plays havoc with the motor. A blunt blade tugs rather than cuts grass, leaving an expanse of frayed grass tips in its wake.

Oil, too, can make all the difference to running; by using the recommended oil a prescribed fuel standard is maintained.



## WATERING

There are many gardening enthusiasts who will go to any lengths to establish a lawn, no effort is too much, yet during summer, when lazing on the lawn is indicated, the thought becomes unacceptable because the lawn is spiky and dusty through lack of water. When to water has been a problem since Adam and Eve were evicted.

Equally at odds with no watering is too frequent watering of lawns. As a once or twice a day ritual, watering rarely achieves its hoped for purpose.

When a lawn is given a light daily watering, grass becomes shallow rooted, conditions become ideal for crabgrass to thrive, and most of the water is lost through evaporation.

Continued on page IX

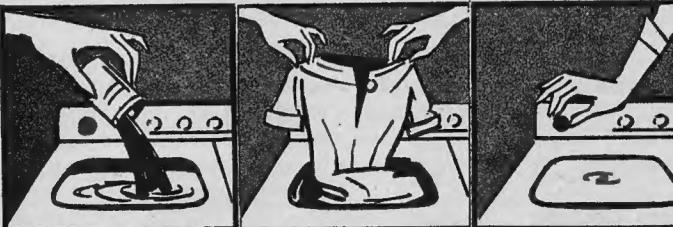
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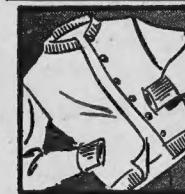
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# MATAMATA

(BOROUGH WITHIN THE MATAMATA COUNTY)

Matamata is situated 38 miles to the east of Hamilton near the northern boundary of the Matamata County, 19 miles by rail from Morrinsville, 50 miles from Rotorua, 121 miles from Auckland, 21 miles south east by road from Morrinsville, 13 miles north by road from Tauranga, Rotorua, Hamilton and Auckland. It is a growing town with a population of 3,900 and has both a fully licensed tourist hotel (22 bedrooms) and a 2-star-plus private hotel (34 bedrooms). It is the centre of a big dairying industry, having within a six-mile radius four large dairy factories. Four miles from Matamata towards the Kaimai Ranges lie the Okauka Hot Springs, which draw large numbers of visitors from all over New Zealand. During holiday periods, both motor camps are crowded with as many as 2,000 campers. Not only are the Hot Springs an attraction but the fact that Matamata is so centrally situated for trips to Hamilton, Rotorua, Tauranga, Waihi, etc., make this town an ideal headquarters. The amenities of the town, which include bowling greens and an 18-hole golf course, make it an ideal tour and conference centre. There is a modern Memorial Centre which is suitable for all types of functions. The town is serviced by six medical practitioners, four chemists, five dentists, one optician and has a public hospital with 23 beds and also a private hospital.

There are a variety of clubs to suit all people, young and old.

There are many attractive business houses in the town catering for different needs. The motorist is well catered for with several modern garages and service stations. Farmers day is Wednesday.

The district was first developed by J. C. Firth, who was responsible for much pioneer land development. The estate was purchased and cut up by the Government in 1899. The locality was the home of Te Waharoa, an influential Maori chief, and of his son Wiremu Tamihana. Before the days of Mr Firth, Matamata saw the establishment of a mission station by the Rev. Brown, who afterwards went on to Tauranga to found the mission there. One of the most famous meetings to take place near Matamata was that between Mr Firth and Te Kooti when the former endeavoured to persuade Te Kooti to surrender to the Government. However, the rebel declared he would live quietly if left alone, otherwise he would continue fighting.

## Contd.—ASSOCIATIONS, CLUBS, ETC.

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ASSOCIATIONS—EMPLOYERS & PROFESSIONAL Matamata Carriers Assn. (C. B. Candy,) Tui St. Matamata Chamber of Commerce, (M. J. Kyle,) P.O. Box 101 Sharemilkers Employers Association, (Noble & Lee,) Arawa St.

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## MATAMATA MAP INDEX

Street	Ref. No.	Street	Ref. No.	Street	Ref. No.	Street	Ref. No.	Street
Allenby Rd	D-2	Elizabeth St.	C-1	Hua St.	D-4	Park Lane	F-3	Sylvan Pl.
Arawa St.	D-3	Findlater St.	D-2	Jellicoe Rd.	A-1	Peria Rd.	D-5	Tainui St.
Arawa St. Extn.	B-4	Firth St.	C-7	Kauri Cres.	C-6	Puriri Pl.	C-6	Tamihana St.
Banks Rd.	I-3	Fitzgerald Ave.	C-3	Kilbride Rd.	E-7	Price Ter.	E-1	Tawa St.
Beatty Rd.	B-1	Gladstone Rd.	E-4	Kiwi St.	D-6	Rangiora Ave.	D-4	Tetley St.
Bedford Cres.	H-2	George St.	A-1	Konini Pl.	C-7	Rata St.	A-3	Totara Ave.
Broadway	F-4	Gordon Ter.	A-2	Kowhai St.	F-2	Ratcliffe St.	D-8	Tower Rd.
Browne St.	C-4	Hag Rd.	I-2	Mangawhero Rd.	D-7	Rawhiti Ave.	B-4	Tui St.
Burwood Rd.	D-2	Hampton Ter.	G-2	Mata Ave.	F-1	Rewa St.	F-1	Vincent St.
Centennial Drive	G-4	Helena St.	C-4	Meura St.	D-1	Rimu St.	D-1	Waharoa Rd.
Central St.	E-4	Hinuera Rd.	C-3	Mill Cres.	C-2	Sheffield St.	C-6	Waharoa Rd. East
College St.	B-1	Hohia Cres.	E-5	Miro St.	C-7	Short St.	A-1	Western St.
Cook St.	F-2	Hohia St.	A-1	Ngaio St.	D-5	Sim St.	C-6	
Coomber St.	C-2				C-5	Smith St.	A-3	
Cranwich Cr.	E-5				D-5	Stanley St.	B-4	
Dawson St.	A-1					Station Rd.		

## Contd.—BARRISTERS AND SOLICITORS

Schofield, Petersen and Gould, B.N.Z.  
Bldg, Arawa St.  
I. M. Petersen, Notary Public,  
W. B. Gould, B.A., LL.B. Hons.  
P. O. Box 43. Phone 7049

## BATHS

Centennial Swimming Baths, Meura St.  
Crystal Hot Springs Ltd., No 1 R.D.  
Crystal Hot Springs Motel Matamata,  
No. 1 R.D.  
Opal Hot Springs and Motor Camp,  
No 1 R. D.

## BATTERY SERVICE STATIONS

Cowling Bros, Broadway  
Hall, B. M. Ltd, Tainui St.  
Matamata Auto Electrical, Tui St.  
Seabrook Fowlds Ltd., Broadway  
Slade Anderson Motors Ltd., Broadway

## BEAUTY SALONS

Beauty Shoppe, The, Arawa St. South  
Carousel Hairdressing Salon, Broadway  
Regal Beauty Shoppe, Smith St  
Roberto's Salon, Arawa St.  
Salon Fayette, Arawa St.  
Salon Margo, Arawa St.  
Salon Michele, Arawa St.

## BILLIARDS SALOONS

Dalziel, T., Broadway

## BLACKSMITHS

Lynch, L., Burwood Rd

## BOOKING OFFICES—TRAVEL (See Travel Agents)

## BOOKSELLERS AND STATIONERS

Arawa Book Shop (Agents for N.Z. Herald), Arawa St.  
Barry and Hastings Ltd., Arawa St.  
Farmers Trading Co. Ltd., Tui St.  
Haworths Department Stores (Matamata) Ltd., Broadway

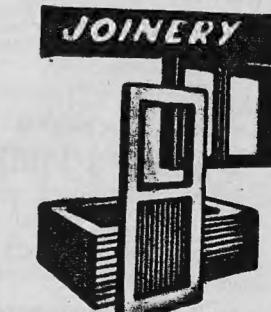
## BOTTLE MERCHANTS

Matamata Skins and Hides, Firth St

## BOTTLED GAS SUPPLIERS

Cowling Bros Ltd, Broadway  
Wright Stephenson and Co. Ltd., Broadway

**C. & M. McKENZIE LTD.**  
Members Waikato Master Builders and Joiners Assn  
**BUILDERS — JOINERS — SHOPFITTERS**  
Suppliers of —  
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Motor and Marine Glazing  
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HAMILTON DEPOT: 83-149



**BULLDOZING CONTRACTORS**  
Griffiths, D., 67 Smith St  
Matamata Carrying Co. Ltd., 22 Burwood Rd.  
Swap, J. Contractors Ltd., Rawhiti Ave.

**BUTCHERS**  
Broadway Butchery Ltd., Broadway  
Crus Roads Butchery Ltd., Tower Rd.  
Matamata Butchery, Broadway  
Super Value Supermarket, Arawa St.  
South  
Tappins Butchery and Delicatessen, Broadway  
Terrace Butchery, Firth St.

**CAFES**—(See Restaurants)

**CAKE SHOPS**  
Matamata Bakeries, Broadway  
Quality Inn Cake Shop, Arawa St.

**CANVAS GOODS MANUFACTURERS**  
Lynch, Tom, Arawa St.  
Matamata Motor Trimmers, Matana St.  
Simonsen Sports Ltd., Arawa St.

**CARPET CLEANING SPECIALISTS**  
Matamata Commercial Cleaners Ltd., Box 147  
Simpson's Flooring Service, Short St.

**CARPET DEALERS—RETAIL**  
Catchpoles Furnishings Ltd., Arawa St.  
Iles and Burgess Ltd., Broadway  
Interior Designs Ltd., Arawa St South  
Miles and Fielder Ltd., Broadway  
Waterson, D. and Co. Ltd., Broadway

**CARPET PLANNERS AND SEWERS**  
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Iles and Burgess Ltd., Broadway  
Interior Designs Ltd., Arawa St South  
Miles and Fielder Ltd., Broadway  
Simpson's Flooring Service, Short St.

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General Carriers and Livestock Transporters. Suppliers of sand and metal

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TRANSPORT  
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QUALITY COSMETICS — CAMERAS AND EQUIPMENT

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**CLEANERS, PRESSERS AND DYERS**—See Drycleaners

**CLOTHING MANUFACTURERS**  
Carson Manufacturing Co. Ltd., Rawhiti Ave.  
Smith and Scholes, 7 Dawson St.  
Webb, G. R. and Son Ltd., 3 Dawson St.

**CLUBS** (See Associations and Clubs)

**CATERERS**  
Ascot Lounge, Race Course, Burwood Rd.  
Carousel Lounge, Catering & Receptions, Broadway  
La Paloma, Broadway  
Mardi Gras, Broadway

**COFFEE BARS**  
Eitoro Coffee Lounge, Arawa St.  
Manly Milk Bar (1962) Ltd., Broadway  
Maritza, Arawa St.

**CATHOLIC SUPPLIES**  
Barry and Hastings Ltd., Arawa St.

**CHAIN SAW IMPORTERS & DEALERS**  
Dalgety NZ Ltd., Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway

**CARPET DEALERS—RETAIL**  
Matamata Auto Electrical, Tui St.  
Matamata Machinery Exchange Ltd., 7 Peria Rd.  
Ross Todd Motors Ltd., Firth St.  
Wright, Stephenson and Co. Ltd., Broadway

**CHEMISTS—RETAIL**  
Broadway Pharmacy Ltd., Broadway  
McSweeney's Pharmacy Ltd., Arawa St.  
Ross (Colin) Pharmacy Ltd., Arawa St.  
Sharp's Pharmacy Ltd., Arawa St.

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Barry and Hastings Ltd., Arawa St.  
Dalgety NZ Ltd., Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway

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General Carriers and Furniture Removals. Daily freight service to Hamilton and Te Aroha

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Super Value Supermarket, Arawa St. South  
Tappins Butchery and Delicatessen, Broadway

DENTISTS

Dental Clinic, Broadway  
Harris, G., Arawa St.  
Newitt, G. B., Arawa St.  
O'Sullivan, D. M., Broadway

DEPARTMENT STORES

Farmers Co-op. Auctioneering Co. Ltd., Broadway  
Farmers Trading Co. Ltd., Tui St.  
Haworths Department Stores (Matamata) Ltd., Broadway

CONCRETE GOODS MANUFACTURERS

Garlands Concrete Products Ltd., Mangawhero Rd.  
Lockes Concrete Products, Mangawhero Rd.

CONCRETE POST MANUFACTURERS

Garlands Concrete Products Ltd., Mangawhero Rd.  
Lockes Concrete Products, Mangawhero Rd.

CONCRETE—READY MIXED

Ready Mixed Concrete Ltd., Mangawhero Rd.

CONFECTIONERY—RETAIL (See Dairies, Milk Bars and Confectioners)

CONTRACTORS—GENERAL

Bennison, R. J., 7 College St  
Daltons Transport and Motors Ltd., Main Tauranga Rd., No. 3 R.D.

Griffiths, D., 67 Smith St  
Johnston, R. C. (Chain Saw), 21 Smith St.

Bur Properties Ltd (H. K. Holloway), Tui St  
Matamata Carrying Co. Ltd., 22 Burwood Rd.  
Smith and Scholes, 7 Dawson St.

Swap, J. Contractors Ltd., Rawhiti Ave.

CORSETRY—RETAIL

Dorienne Lingerie, Arawa St.  
Hilliar, Frank Ltd., Arawa St.

Jagger, N. and E. Ltd., Arawa St.  
Wilbert Marks Ltd., Broadway

CREDIT PROTECTION AGENTS

N.Z. National Creditmen's Assn. (A.P.) Ltd. (W. J. Smeaton), Arawa St.

CYCLE DEALERS—RETAIL

Farmers Trading Co. Ltd., Tui St.  
Richardson and Edge Ltd., Arawa St.

Staneley Cycles and Electrical, Arawa St.

DAIRIES, MILK BARS AND CONFECTIONERS

Bedford Grill Rooms and Milk Bar, Arawa St. South  
Broadway Dairy, Broadway  
Carla Milk Bar (1960) Ltd., Arawa St.

Crystal Hot Springs Ltd., No. 1 R.D.  
Farmers Trading Co. Ltd., Tui St

Opal Hot Springs and Motor Camp, No. 1 R.D.

DAIRY FACTORIES

N.Z. Co-op. Dairy Co. Ltd., Firth St.

DAIRY MACHINERY DEALERS

Graham and Kosof, Arawa St.  
Jobe, J. S. (Jim) Ltd., Arawa St. South

Matamata Machinery Exchange Ltd., 7 Peria Rd.

DEBT COLLECTORS

N.Z. National Creditmen's Assn. (A.P.) Ltd. (W. J. Smeaton), Arawa St.

ELECTRIC LIGHTING CONSULTANTS (See Lighting Consultants)

Graham and Kosof, Arawa St.  
Kosof, Brian, Broadway  
Matamata Machinery Exchange Ltd., 7 Peria Rd.

Pearson Engineering Ltd., Firth St.  
Tidmarsh, P. L., Burwood Rd

ENGINEERS—STRUCTURAL DESIGNING

Curtis Machinery Service Ltd., Rawhiti Ave

ENGINEERS—WATER

Martin, J. H. Ltd., 9 Station Rd.

ENGRAVERS—JEWELLERY

Coxhead, T. K. Jewellers Ltd., Broadway

FANCY GOODS DEALERS

Barry and Hastings Ltd., Arawa St.

FARRIERS

Lynch, L., Burwood Rd

FENCE MANUFACTURERS

Henry (G. W.) Steel Construction Co. Ltd., Rawhiti Ave

FIBREGLASS PLASTER FIXERS AND STOPPERS

Dalgety NZ Ltd., Broadway

Farmers Co-op. Auctioneering Co. Ltd., Broadway

Newton, King Ltd., Broadway

Wright, Stephenson and Co. Ltd., Broadway

FIBROUS PLASTER MANUFACTURERS

Piako Plasterers, 9 Hampton Ter., Factory: Short St.

FIBROUS PLASTER FIXERS AND STOPPERS

March, H. W., Portsmith Place

Piako Plasterers, 9 Hampton Ter., Factory: Short St.

FURNITURE DIRECTORS

Waterson, D. and Co. Ltd., Broadway

FURNISHERS—HOUSEHOLD

Catchpoles Furnishings Ltd., Arawa St.

Farmers Trading Co. Ltd., Tui St.

Iles and Burgess Ltd., Broadway

Interior Designs Ltd., Arawa St. South

Miles and Fielder Ltd., Broadway

Waterson, D. and Co. Ltd., Broadway

FURNISHINGS SOFT—RETAIL

Catchpoles Furnishings Ltd., Arawa St.

Farmers Trading Co. Ltd., Tui St.

Iles and Burgess Ltd., Broadway

Interior Designs Ltd., Arawa St. South

Miles and Fielder Ltd., Broadway

Waterson, D. and Co. Ltd., Broadway

FURNITURE MANUFACTURERS—RETAIL

McGrail, R. J., Short St.

McKenzie, C. and M. Ltd., Firth St.

Waterson, D. and Co. Ltd., Broadway

FIREPLACE MANUFACTURERS

Greenwell, Les Ltd., 30 Burwood Rd

FISH MERCHANTS—RETAIL

Esperanto, Broadway

FISHING TACKLE SUPPLIES

**FURNITURE PACKERS AND REMOVERS**  
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**GARDEN SUPPLIES**  
Garden Supplies Ltd., Broadway  
Knox Floral & Garden Centre, Broadway  
Ruapehu Nursery Shop, Broadway

**GIFT SHOPS**  
Barry and Hastings Ltd., Arawa St.  
Bella Boutique, Broadway  
Haworths Department Stores (Matamata) Ltd., Broadway

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Glass Stockists and Glazing Specialists for Buildings, Cars, Boats and Caravans

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Ellis and Burnand Ltd., Rewa St  
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Matamata Glass and Joinery Ltd., 20 Waharoa Rd

**GOVERNMENT DEPARTMENTS**  
Agricultural Dept., Tui St.  
Courthouse, Tui St.  
Health Department, Tui St.  
Ministry of Works, Electrical Sub-Station, Tower St.  
N.Z. Road Services, C/o Railway Stn.  
Police Station, Tui St.  
Post Office, Arawa St.  
Public Trust Office, Tui St.  
Transport Department, Tui St.

**GRAIN AND SEED MERCHANTS**  
Dalgety NZ Ltd, Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway  
Farmers Trading Co. Ltd., Tui St.  
Newton, King Ltd., Broadway  
Wallace Supplies Ltd., Arawa St.  
Wright, Stephenson and Co. Ltd., Broadway

**GRAVEL, SAND AND SHINGLE SUPPLIES**  
Daltons Transport and Motors Ltd., Main Tauranga Rd., No. 3 R.D.  
Luff, W. H. Ltd., 71 Peria Rd.  
Matamata Carrying Co. Ltd., 22 Burwood Rd.  
Matamata Metal Supplies Ltd., 5 Western St.  
Matamata Sand Co. Ltd., Puketutu Rd  
Smith and Scholes, 7 Dawson St.  
Swap, J. Contractors Ltd., Rawhiti Ave  
Webb, G. R., 3 Dawson St.

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CNR. FIRTH ST. & STATION RD.  
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Farmers Trading Co. Ltd., Tui St.  
Hancocks Foodmarket Ltd., Tower Rd.  
Hazelwoods Foodmarket Ltd., Broadway  
Robinson, Geo. Ltd., cnr. Firth St. and Station Rd.  
Shoprite Foodstores, Arawa St.  
Super Value Supermarket, Arawa St. South  
Wallace Supplies Ltd., Arawa St.  
Waring, T. and J. Ltd., Broadway

**HAIRDRESSERS—MENS**  
Dalziel, T., Broadway  
Harris, Ray, Broadway  
Holmes, Don  
McVinnie, Keith, Arawa St

**HALLS**  
Fire Brigade Hall, Peria Rd.  
Masonic Hall, Elizabeth St.  
Matamata Rugby Football Club Hall, Coomer St.  
Memorial Centre Hall, Tainui St.  
St. John Ambulance Hall, Arawa St.  
St. Josephs School Hall, Hohia St.  
Scout and Guides Hall, Broadway

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Dalgety NZ Ltd., Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway

Fulton & Green, (Prudential), Broadway  
Gibson, Bryan (NZ Ins. and Mutual), Broadway

Henry, G. W. Steel Construction Co. Ltd. (Lombard Ins. Co. Ltd.), Arawa St.

Holloway, H. K. (National Ins.), Tui St.  
Larkin, R. J. (Atlas), Arawa St North

Lee, David S. (Alliance Assurance), Broadway  
Taupo Totara Timber Co. Ltd., Rawhiti Ave.

Waikato Farmers Traders Society Ltd., Tainui St.  
Wallace Supplies Ltd., Arawa St.  
Wright, Stephenson and Co. Ltd., Broadway

**HEATING EQUIPMENT**  
King, Mervyn, 62 Burwood Rd  
Magan, Bruce Ltd., Coomer St  
Walker, Allan, 9 Burwood Rd

**HOME APPLIANCES—RETAIL**  
Bond and Bond Ltd., Arawa St.  
Dalgety NZ Ltd., Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway

Farmers Trading Co. Ltd., Tui St.  
Fleming, C. J. Ltd., Broadway  
Haworths Department Stores (Matamata) Ltd., Broadway

Matamata Machinery Exchange Ltd. (British Traders), 7 Peria Rd.  
Mills, N. D. (Dominion Life), 2 Allenby Rd

Newman, K. F., (A.M.P. Fire & General) Arawa St.  
Newton King Ltd. (Provident Life Ass. and Phoenix), Broadway

Noble & Lee, (Sun Alliance Assurance), Arawa St.  
Richardson and Edge Ltd. (NZ Ins.), Arawa St.

Richardson, J. V., (State Ins.), Broadway  
Robertson, A. W. (A.M.P.), Waharoa Rd. East

Sampson, Eric, (M.L.C. Assur.), P.O. Box 226  
Schofield, Petersen & Gould (NZ Ins.), B.N.Z. Bldg., Arawa St.  
Seabrook Fowlds Ltd. (N.Z. Insurance), Newton, King Ltd., Broadway

Slade Anderson Motors Ltd. (General Insurance Co.), Broadway  
Tom, Arawa St.  
Matamata Motor Trimmers, Hetana St.

**HOSPITALS—NURSES, ETC.**  
Braeside Private Hospital, Hinuera Rd.  
District Health Nurse, 2 Barnard St.  
Matamata Public Hospital, Elizabeth St.  
Plunket Rooms, Hetana St.

**HOTELS**  
N.Z. Dairy Co-op. Co.'s Hostel, Farmers Rd

**HOTELS—LICENSED**  
Matamata Hotel Ltd., Arawa St. Extn.

**HOTELS—PRIVATE**  
Hotel Braeburn, Firth St.

**INSURANCE AGENTS**

**ROYAL INSURANCE CO. LTD.**

TUI BUILDING, TUI ST

PHONE: (Bus.) 8564; (Res.) 7494

District Rep. S. Lott

**Contd.—INSURANCE AGENTS**  
Automobile Association Auckland Inc., (N.I.M.U.) Broadway  
Banks, J. B. (National Ins.), Broadway  
Bell and Graham (I.O.A. Ins.), Arawa St.

Bell, R. J. (Eagle Star), Broadway  
Candy, Tappin and Co. (London and Lancashire Ins.), Arawa St. South

Catchpoles Furnishings Ltd. (North British and Mercantile), Arawa St.  
Christophers, J. B. (Royal Exchange), Arawa St.

Cleaver Motors Ltd. (General), Tainui St.

Cotter, B. P. (Govt. Life), Broadway  
Cowling Bros. Ltd. (Royal), Broadway  
Cullen, Ian Motors Ltd. (Primary Industries Ins.), cnr Peria & Waharoa Rds

Dalgety NZ Ltd. (Dominion Life and Union), Broadway  
Daltons Transport and Motors Ltd. (Sun), Main Tauranga Rd., No. 3 R.D.

Edmonds, Wilson & Marshall, (Norwich Union & South British), Arawa St.  
Farmers Co-op. Auctioneering Co. Ltd. N.Z. and Producers and Citizens Co-op., Broadway

Fulton & Green, (Prudential), Broadway  
Gibson, Bryan (NZ Ins. and Mutual), Broadway

Henry, G. W. Steel Construction Co. Ltd. (Lombard Ins. Co. Ltd.), Arawa St.

Holloway, H. K. (National Ins.), Tui St.  
Larkin, R. J. (Atlas), Arawa St North

Lee, David S. (Alliance Assurance), Broadway  
Taupo Totara Timber Co. Ltd., Rawhiti Ave.

Waikato Farmers Traders Society Ltd., Tainui St.  
Wallace Supplies Ltd., Arawa St.  
Wright, Stephenson and Co. Ltd., Broadway

**HEATING EQUIPMENT**  
King, Mervyn, 62 Burwood Rd  
Magan, Bruce Ltd., Coomer St  
Walker, Allan, 9 Burwood Rd

**HOME APPLIANCES—RETAIL**  
Bond and Bond Ltd., Arawa St.  
Dalgety NZ Ltd., Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway

Farmers Trading Co. Ltd., Tui St.  
Fleming, C. J. Ltd., Broadway  
Haworths Department Stores (Matamata) Ltd., Broadway

Matamata Machinery Exchange Ltd. (British Traders), 7 Peria Rd.  
Mills, N. D. (Dominion Life), 2 Allenby Rd

Newman, K. F., (A.M.P. Fire & General) Arawa St.  
Newton King Ltd. (Provident Life Ass. and Phoenix), Broadway

Noble & Lee, (Sun Alliance Assurance), Arawa St.  
Richardson and Edge Ltd. (NZ Ins.), Arawa St.

Richardson, J. V., (State Ins.), Broadway  
Robertson, A. W. (A.M.P.), Waharoa Rd. East

Sampson, Eric, (M.L.C. Assur.), P.O. Box 226  
Schofield, Petersen & Gould (NZ Ins.), B.N.Z. Bldg., Arawa St.  
Seabrook Fowlds Ltd. (N.Z. Insurance), Newton, King Ltd., Broadway

Slade Anderson Motors Ltd. (General Insurance Co.), Broadway  
Tom, Arawa St.  
Matamata Motor Trimmers, Hetana St.

**HOSPITALS—NURSES, ETC.**  
Braeside Private Hospital, Hinuera Rd.  
District Health Nurse, 2 Barnard St.  
Matamata Public Hospital, Elizabeth St.  
Plunket Rooms, Hetana St.

**HOTELS**  
N.Z. Dairy Co-op. Co.'s Hostel, Farmers Rd

**HOTELS—LICENSED**  
Matamata Hotel Ltd., Arawa St. Extn.

**HOTELS—PRIVATE**  
Hotel Braeburn, Firth St.

**INSURANCE AGENTS**

**ROYAL INSURANCE CO. LTD.**

TUI BUILDING, TUI ST

PHONE: (Bus.) 8564; (Res.) 7494

District Rep. S. Lott

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**LONDON & LANCASHIRE INSURANCE CO. LTD.**

**AUSTRALIAN ALLIANCE ASSURANCE CO. LTD.**

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Resident Inspector: P. J. McCURDY PHONE 6108

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**SOUTH BRITISH LIFE ASSURANCE CO. LTD.**

**FARMERS CO-OP INSURANCE ASSN. OF (NZ) LTD**

**UNITED INSURANCE CO. LTD.**

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Local Office: ARAWA ST. SOUTH PHONE 6122 & 8134  
P.O. Box 81

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BROADWAY. PHONE 8850  
P.O. BOX 99

See advertisement UBD Home Edition  
Australian Alliance Assurance Co., Salisbury Bldg., Tui St.  
Farmers Co-op. Insurance Co. Ltd. (The), Tetley St

London and Lancashire Insurance Co. Ltd., Salisbury Bldg., Tui St.  
N.Z. Insurance Co. Ltd. (The), Tui St.

Royal Insurance Group, Arawa St. South  
South British Insurance Co. Ltd. (The), Tui St.

South British Life Assurance Co. Ltd., Arawa St.  
State Insurance Office, Broadway

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**INTERIOR DESIGNS LTD.**

ARAWA ST. SOUTH PHONE 7428  
ALSO AT 81 DEVONPORT RD, TAURANGA. PHONE: (Tauranga) 85-558

Architectural Draughtsmen, Interior Designers, Soft Furnishers, Exclusive Furniture, Flooring Suppliers and Contractors

Interior Designs Ltd., Arawa St. St.

**INVESTMENT COMPANIES**

**ARAWA DEVELOPMENT CORPORATION LTD.**  
c/o K. F. Newman, Arawa St  
Sincan Investments Ltd (Candy Tappin & Co.), Arawa St South

**IRON AND STEEL MERCHANTS**  
Pearson Engineering Ltd., Firth St

**JEWELLERS AND WATCHMAKERS**

**COXHEAD, T. K. JEWELLERS LTD.**

BROADWAY. PHONE 8879

Jewellers and Watch Makers. Quality Watches and Clocks. Omega Agents

Coxhead, T. K. Jewellers Ltd., Broadway

Edwards, O. W. Ltd., Arawa St.

White, D. W., Broadway

JOINERY MANUFACTURERS

**ELLIS & BURNAND BUILDING SUPPLIES LTD.**

REWA ST PHONE 8145 (2 Lines)

Timber Merchants and Joinery Manufacturers. Radiata pine, native timber, hardwoods, mouldings, joinery, Pinex, hardboard and softboard, flush doors, marine plywood, builders' hardware, glass, roofing iron, Fibrolite, Gibraltor board, fibreglass insulation, etc.

Bond and Bond Ltd., Arawa St.

Dalgety NZ Ltd., Broadway

Farmers Trading Co. Ltd., Tui St.

Lawnmower Repair Service, Firth St

Matamata Auto Electrical, Tui St.

Matamata Machinery Exchange Ltd., 7 Peria Rd.

Richardson and Edge Ltd., Arawa St.

Wright, Stephenson and Co. Ltd., Broadway

LAWNMOWER SPECIALISTS

Bond and Bond Ltd., Arawa St.

Dalgety NZ Ltd., Broadway

Farmers Trading Co. Ltd.,

## MATAMATA HOME EDITION

Contd.—MOTOR GARAGES AND ENGINEERS

### WALTON GARAGE LTD.

MAIN RD, WALTON.

PHONE: (Walton) 733  
Motor garage and general engineering. Portable farm welding service; lubrication and tyre service

Baigent (H. G.) Motors (Matamata) Ltd., Firth St. Clarkson Motors Ltd., Firth St. Cleaver Motors Ltd., Tainui St. Cowling Bros. Ltd., Broadway Cullen, Ian Motors Ltd., cnr Peria & Waharoa Rds. Daltons Transport and Motors Ltd., Main Tauranga Rd., No. 3 R.D. Evans, Alan Ltd., Broadway Kennedy's Garage, Waharoa Rd. East Matamata Motors (1962) Ltd., Arawa St. Ross, Todd Motors Ltd., Firth St. Seabrook Fowlds Ltd., Broadway Slade Anderson Motors Ltd., Broadway Wright, Stephenson and Co. Ltd., Broadway Yanko, L. Motors Ltd., Mangawhero Rd.

### MOTOR GLASS REPLACEMENTS

McKenzie, C. & M. Ltd., Firth St. Matamata Glass and Joinery Ltd., 20 Waharoa Rd.

### MOTOR MOWER MANUFACTURERS AND DISTRIBUTORS

Dalgety NZ Ltd., Broadway Matamata Auto Electrical, Tui St.

Matamata Motors (1962) Ltd., Arawa St. Newton, King Ltd., Broadway Richardson and Edge Ltd., Arawa St.

### MOTOR PAINTERS

Baker, Lloyd, Tui St. MacClure, Don, Firth St.

### MOTOR PANEL BEATERS

Bardsley's Auto Bodies Ltd., Firth St. Kirkwood & Hurlstone Ltd., Arawa St. South Matamata Panel Works, Peria Rd. Broadway

### MOTOR PASSENGER SERVICES

Matamata Passenger Transport, Firth St. Midlands Edwards Coachlines Ltd., Broadway N.Z. Road Services, C/o Railway Stn.

### MOTOR RADIATOR SPECIALISTS

Greenhalgh, A., 15 Tower Rd. MOTOR SERVICE STATIONS—(Petrol, etc.)

Baigent (H. G.) Motors (Matamata) Ltd., Firth St.

Cleaver Motors Ltd., Tainui St. Cowling Bros. Ltd., Broadway Cross Roads Tyre Service Ltd., Tower Rd.

Cullen, Ian Motors Ltd., cnr Peria & Waharoa Rds. Daltons Transport and Motors Ltd., Main Tauranga Rd., No. 3 R.D.

Evans, Alan Ltd., Broadway Kennedy's Garage, Waharoa Rd. East Matamata Motors (1962) Ltd., Arawa St. Newton, King Ltd., Broadway

Ross, Todd Motors Ltd., Firth St. Seabrook Fowlds Ltd., Broadway Slade Anderson Motors Ltd., Broadway Wright, Stephenson and Co. Ltd., Broadway

### MOTOR TRIMMERS

Matamata Motor Trimmers, Hetana St.

### MUSIC TEACHERS—REGISTERED

Clare, Sister Cecilia (Piano, singing Theory Music), St Joseph's Convent McFadyen, Mrs J. H. (Piano), 6 Fitzgerald Ave.

### MUSIC TEACHERS

Mark, Mrs E., Miro St.

### MUSICAL INSTRUMENTS

Morrison, A. T. Ltd., Broadway

### NEWSPAPERS

Matamata County Mail, Arawa St.

Matamata District Chronicle, Arawa St.

### NOTARIES PUBLIC

Petersen, I. M., Arawa St.

### NURSERY FURNITURE—RETAIL

Pram House The, Broadway Richardson and Edge Ltd., Arawa St.

### NURSERYMEN AND SEEDSMEN

Knox Floral and Garden Centre, Broadway Ruapehu Nursery Shop, Broadway

### OFFICE SUPPLIES

Barry and Hastings Ltd., Arawa St

### OPTICIANS AND OPTOMETRISTS

Grocott, E. H. (Matamata) Ltd., Broadway

### PLAN REPRODUCTION

Stanley Construction Ltd., Firth St.

### PLASTERERS

Donovan, G. T. Ltd., Burwood Rd Pike Plasterers, 9 Hampton Tce. Factory, Short St.

Taylor, H. and B. Ltd., Puriri Place

### PAINT MERCHANTS

### MATAMATA COLOUR CENTRE LTD

BROADWAY PHONE 6299

Stockists of British, Dulux and Taubmans paints. Pictures and mirrors

Booth and Chapman (Matamata) Ltd., Arawa St. South

Dalgety NZ Ltd., Broadway Farmers Co-op. Auctioneering Co. Ltd., Broadway

Matamata Colour Centre Ltd., Broadway

Newton, King Ltd., Broadway

### MOTOR GLASS REPLACEMENTS

McKenzie, C. & M. Ltd., Firth St.

Matamata Glass and Joinery Ltd., 20 Waharoa Rd.

### MOTOR MOWER MANUFACTURERS AND DISTRIBUTORS

Dalgety NZ Ltd., Broadway

Matamata Auto Electrical, Tui St.

Matamata Motors (1962) Ltd., Arawa St.

Newton, King Ltd., Broadway

Richardson and Edge Ltd., Arawa St.

### MOTOR PAINTERS

Baker, Lloyd, Tui St.

MacClure, Don, Firth St.

### MOTOR PANEL BEATERS

Bardsley's Auto Bodies Ltd., Firth St.

Kirkwood & Hurlstone Ltd., Arawa St. South

Matamata Panel Works, Peria Rd.

Broadway

### MOTOR PASSENGER SERVICES

Matamata Passenger Transport, Firth St.

Midlands Edwards Coachlines Ltd., Broadway

N.Z. Road Services, C/o Railway Stn.

### MOTOR RADIATOR SPECIALISTS

Greenhalgh, A., 15 Tower Rd.

### MOTOR SERVICE STATIONS—(Petrol, etc.)

Baigent (H. G.) Motors (Matamata) Ltd., Firth St.

Cleaver Motors Ltd., Tainui St.

Cowling Bros. Ltd., Broadway

Matamata Panel Works, Peria Rd.

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Mark, Mrs E., Miro St.

### MUSICAL INSTRUMENTS

Morrison, A. T. Ltd., Broadway

### NEWSPAPERS

Matamata County Mail, Arawa St.

Matamata District Chronicle, Arawa St.

### NOTARIES PUBLIC

Petersen, I. M., Arawa St.

### PICTURE FRAMERS

Catchpoles Furnishings Ltd., Arawa St. Charles, John Studio, Arawa St. Melrose Photographic Centre and Studio, Broadway

### PICTURE THEATRES

Regent Theatre, Broadway

### OFFICE SUPPLIES

Barry and Hastings Ltd., Arawa St

### OPTICIANS AND OPTOMETRISTS

Grocott, E. H. (Matamata) Ltd., Broadway

### PLAN REPRODUCTION

Stanley Construction Ltd., Firth St.

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### NEWSPAPERS

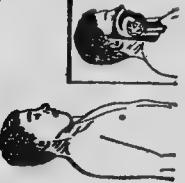
Matamata County Mail, Arawa St.

Matamata District Chronicle, Arawa St.

### NOTARIES PUBLIC

# RESCUE BREATHING FOR ADULTS

DROWNING. ELECTRIC SHOCK. SMOTHERING. CHOKING. SMOKE SUFFOCATION.  
DRUG OVERDOSE. GAS POISONING.



Place the victim on his back and begin rescue breathing. Your first blowing efforts will show if his air passages are blocked and, if they are clear, will provide the urgently needed oxygen. If his throat is blocked, clear it quickly with your fingers. Slaps between the shoulder blades should dislodge a stubborn blockage.

Rescue breathing through the patient's nose is less likely to force air into his stomach. If his nose is blocked, however, try rescue breathing through his mouth.

Make the first 5 to 10 breaths deep and rapid. Then continue with 10 to 15 breaths a minute. When he starts trying to breathe for himself, keep your breaths in time with his efforts.



## BEGIN AT ONCE — DELAY MAY BE FATAL

Don't waste time by feeling the victim's pulse, finding equipment, moving him, going for help, getting to shore. Only a short time without oxygen can cause serious damage to the brain.



Holding the head fully tilted with chin pulled forward, take a deep breath, open your mouth wide (fig. 3) and seal your lips on his cheeks around his nose, keeping his mouth closed and taking care not to pinch his nostrils (fig. 4).



Stop each inflation as you see the patient's chest expand. Air blown into the stomach may decrease the blood returning to the heart and cause vomiting. Excess air may be removed by gentle pressure, but emptying air too frequently can cause liquids to be regurgitated up into the throat, where they can be inhaled. Steady and not too forceful breaths will avoid the sudden blast of air into the throat which opens the gullet.



Remove your mouth and listen to him breathing out through mouth and nose — while you are taking another breath (fig. 6). Inflate his lungs again as soon as he has breathed out.

## DANGER SIGNS

No breathing movements; blueness of tongue, lips and fingernails, indicating lack of oxygen in the blood and need of help with breathing. Even if you are in doubt, begin rescue breathing immediately.

## SUPPORT YOUR LOCAL ADVERTISER

### Contd.—TRAVEL AGENTS

Associated Travel Agencies Ltd, Matamata Travel Centre, Broadway  
Dalgety NZ Ltd, Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway  
Midland Edwards Coachlines Ltd, Broadway  
NMA Company of New Zealand Limited, Firth St

### TRAVEL GOODS MANUFACTURERS

Richardson and Edge Ltd, Arawa St

### TRUSTS AND EXECUTORS

Public Trust Office, Tui St.

### TRUSTS AND TRUST BOARDS

Braeside Hospital Trust, (R. Fulton) Broadway  
Pohlen Hospital Trust Board (J. B. Christophers), Arawa St

### TYRE DEALERS AND REPAIRERS

Baigent, H. G. Motors (Matamata) Ltd, Firth St  
Cleaver Motors Ltd, cnr. Tui and Tainui Sts.  
Cowling Bros. Ltd., Broadway  
Cross Roads Tyre Service Ltd., Tower Rd.  
Cullen, Ian Motors Ltd, cnr Peria & Waharoa Rds  
Kennedy's Garage, Waharoa Rd. East  
Matamata Tyre Service, Arawa St. South  
Richardson and Edge Ltd., Arawa St.  
Seabrook Fowlds Ltd., Broadway  
Slade Anderson Motors Ltd., Broadway

### TYRE RETREADERS

Cross Roads Tyre Service Ltd., Tower Rd.  
Matamata Tyre Service, Arawa St. Sth.

### UPHOLSTERERS

Catchpoles Furnishings Ltd., Arawa St.  
Tauranga Rd., No. 3 R.D.  
Matamata Motor Trimmers, Hetana St.

### VETERINARY SURGEONS

Cawker, W. T., Tainui St  
Collins, J. W., Arawa St  
Dickinson, L. G., Tainui St  
Marks, J. F., 25 Tower Rd  
Meadows, P., Arawa St  
Morrisville District Veterinary Club, Arawa St. Extension  
Thompson, C. C., 25 Tower Rd.  
Van Der Nagel, R., Arawa St  
Wilcockson, I. W., Tainui St

### WALLBOARD MANUFACTURERS

Trower Industries Ltd, Garland St  
WALLBOARD MERCHANTS

McKenzie, C. and M. Ltd., Firth St.

### WALLPAPER MERCHANTS

Catchpoles Furnishings Ltd., Arawa St.  
Tauranga Rd., No. 3 R.D.  
Matamata Motor Trimmers, Hetana St.  
Matamata Colour Centre Ltd, Broadway

### WELDERS—ELECTRIC & OXY-ACETONE

Bardsley's Auto Bodies Ltd., Firth St  
Cleaver Motors Ltd.

Curtis Machinery Service Ltd, Arawa St

Cowling Bros. Ltd., Broadway

Daltons Transport and Motors Ltd., Main Kirkwood & Hurlstone Ltd., Arawa St

South Matamata Engineering Ltd, Mangawhero Rd

Matamata Machinery Exchange Ltd., 7 Peria Rd.

Pearson Engineering Ltd, Firth St

Tidmarsh, P. L., Burwood Rd

### WINE RESELLERS

Farmers Co-op. Auctioneering Co. Ltd., Broadway  
Robinson, Geo. Ltd., cnr Firth St and Station Rd.  
Select Wines, Broadway

### WATER PURIFICATION ENGINEERS

Jobe, J. S. (Jim) Ltd, Arawa St South

### WEED SPRAYING CHEMICALS

Dalgety NZ Ltd, Broadway  
Farmers Co-op Auctioneering Co. Ltd., Broadway

Newton, King Ltd., Broadway

NMA Company of New Zealand Limited, Firth St

Wright, Stephenson and Co. Ltd., Broadway

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Cleaver Motors Ltd.

Curtis Machinery Service Ltd, Arawa St

Cowling Bros. Ltd., Broadway

Daltons Transport and Motors Ltd., Main Kirkwood & Hurlstone Ltd., Arawa St

South Matamata Engineering Ltd, Mangawhero Rd

Matamata Machinery Exchange Ltd., 7 Peria Rd.

Pearson Engineering Ltd, Firth St

Tidmarsh, P. L., Burwood Rd

### WOOLBROKERS

Dalgety NZ Ltd, Broadway  
Farmers Co-op. Auctioneering Co. Ltd., Broadway

### WOOL BUYERS

Matamata Skins and Hides, Firth St

### WROUGHT IRON BALUSTRADE & STAIRCASE MANUFACTURERS

Curtis Machinery Service Ltd, Arawa St

### WINE RESELLERS

Farmers Co-op. Auctioneering Co. Ltd., Broadway

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Newton, King Ltd., Broadway

NMA Company of New Zealand Limited, Firth St

Wright, Stephenson and Co. Ltd., Broadway

### WELDERS

# CAPITAL CITIES OF THE WORLD

City	Country	Population	City	Country	Population
Addis Ababa, Ethiopia	.....	644,190	Lima, Peru	.....	1,715,971
Amsterdam, Netherlands	.....	845,821	Lisbon, Portugal	.....	820,000
Ankara, Turkey	.....	902,000	London, England	.....	7,703,410
Athens, Greece	.....	1,852,709	Madrid, Spain	.....	3,150,000
Baghdad, Iraq	.....	1,200,000	Manila, Philippines	.....	2,989,300
Bangkok, Thailand	.....	1,577,003	Mexico City, Mexico	.....	8,000,000
Beirut, Lebanon	.....	550,000	Monte Video, Uruguay	.....	1,173,114
Belgrade, Yugoslavia	.....	963,000	Moscow, U.S.S.R.	.....	7,061,000
Berne, Switzerland	.....	166,800	Oslo, Norway	.....	486,972
Bogota, Colombia	.....	2,000,000	Ottawa, Canada	.....	494,535
Brasilia, Brazil	.....	300,000	Panama City, Panama	.....	412,000
Bonn, West Germany	.....	137,986	Paris, France	.....	2,590,000
Brussels, Belgium	.....	1,077,035	Peking, China	.....	4,010,000
Bucharest, Rumania	.....	1,511,388	Prague, Czechoslovakia	.....	1,030,330
Budapest, Hungary	.....	2,007,000	Rangoon, Burma	.....	1,703,002
Buenos Aires, Argentina	.....	7,200,000	Rawalpindi, Pakistan	.....	340,175
Cairo, United Arab Republic	.....	3,346,000	Rome, Italy	.....	3,412,000
Canberra, Australia	.....	127,700	Salisbury, Rhodesia	.....	400,000
Cape Town, South Africa	.....	807,211	Santiago, Chile	.....	2,100,000
Caracas, Venezuela	.....	2,064,000	Seoul, Korea	.....	3,794,959
Copenhagen, Denmark	.....	1,199,010	Stockholm, Sweden	.....	1,418,267
Delhi, India	.....	3,780,423	Tehran, Iran	.....	3,150,000
Djakarta, Indonesia	.....	4,750,000	Tokyo, Japan	.....	11,353,724
Dublin, Irish Republic	.....	568,772	Victoria, Hong Kong	.....	767,000
Havana, Cuba	.....	783,162	Vienna, Austria	.....	1,636,600
Helsinki, Finland	.....	526,896	Warsaw, Poland	.....	1,273,600
Jerusalem, Israel	.....	275,000	Washington, D.C., U.S.A.	.....	2,750,700
La Paz, Bolivia	.....	553,000	Wellington, New Zealand	.....	301,300

(1971 Figures)

## The WORLD — Miscellaneous Statistics

THE OCEANS		Area sq miles
Pacific	.....	63,986,000
Atlantic	.....	31,530,000
Indian	.....	28,350,000
Arctic	.....	5,541,600
Malay	.....	3,137,000
Central American	.....	1,770,170
Mediterranean	.....	1,145,000
Behring	.....	878,000
Okhotsk	.....	582,000
East China	.....	480,000
Hudson Bay	.....	472,000
Japan	.....	405,000
Andaman	.....	305,000
North Sea	.....	221,000
Red Sea	.....	178,000
Baltic	.....	158,000

LOCATION OF GREATEST OCEAN DEPTHS	
Pacific Ocean	36,198ft
Off Mindanao, Philippines	.....
Atlantic Ocean	27,498ft
Porto Rico Trench	.....
Indian Ocean	26,400ft
Diamantina Trench	.....
Antarctic Ocean	14,274ft
Arctic Ocean	69° 20' S, 99° 45' W
Malay Sea	77° 45' N, 175° W
Off Cape Matapan	14,435ft
Behring Sea	13,422ft
Buldur Trough	.....

### SOME LENGTHY TUNNELS

	Miles
Northern Line Tube, London	17 <sup>1</sup> / <sub>2</sub>
Simplon, Swiss-Italian frontier	12 <sup>1</sup> / <sub>2</sub>
St Gotthard, Swiss-Italian frontier	9 <sup>1</sup> / <sub>2</sub>
Lotschberg, Switzerland	9 <sup>1</sup> / <sub>2</sub>
Mont Cenis, France	8
Arberberg, Tyrol	6 <sup>1</sup> / <sub>2</sub>
Rimutaka, NZ	5 miles 821yds
Otira, NZ	5 miles 554yds
Severn, BR (Western Region), England	4 <sup>1</sup> / <sub>2</sub>
Totley, BR (Midland Region), England	3 <sup>1</sup> / <sub>2</sub>
Stanbedge, BR (Midland Region), England	3 miles 64yds
Woodhead, BR (Eastern Region), England	3
Mersey	2-1/6

### LANGUAGES OF THE WORLD (MOTHER TONGUES)

Language	People
English	200,000,000
North Chinese	200,000,000
Russian	120,000,000
German	100,000,000
Spanish	100,000,000
Japanese	80,000,000
French	75,000,000
Western Hindi	72,000,000
Cantonese	60,000,000
Bengali	60,000,000
Italian	50,000,000
Portuguese	50,000,000
Malay	40,000,000
Arabic	40,000,000
Polish	30,000,000
Ukrainian	30,000,000
Bihari	28,000,000
Telugu	26,000,000
Korean	22,000,000
Marathi	21,000,000
Tamil	21,000,000
Turkish	20,000,000

### KOSHTAN TAU

	People
Koshtan Tau	17,096
Kenya	17,040
Ruwenzori	16,800
Kluchevskaya	16,124
Mont Blanc	15,782

### THE HIGHEST BUILDINGS

	Feet
World Trade Centre, Manhattan	1350
Empire State, NY, USA	1248
Chrysler Building, NY, USA	1046
Eiffel Tower, Paris (originally)	985
60 Wall Tower, NY, USA	950
Bank of Manhattan, NY, USA	927
Rockefeller Centre, NY, USA	850
Woolworth's, NY, USA	792
City Bank Farmers' Trust, NY, USA	741
Metropolitan Life Bldg, NY, USA	700
500 Fifth Ave, NY, USA	697

### THE LONGEST RIVERS

River	Outflow	Length in Miles
Missouri	Gulf of Mexico	4160
Godwin-Austen (K2)	Atlantic	4050
Kinchinjangi	Mediterranean	3710
Nanga Parbat	North Pacific	3400
Nanda Devi	Arctic Sea	3300
Kamet	Atlantic	3000
Minya Konka	Arctic Sea	2800
Aconcagua	Obi	2800
Huascaran	Gulf of Guiana	2700
Sorata (Illampu)	North Pacific	2600
Sahama	Amur	2500
Ilimani	Parana	2450
Huandoy	Caspian Sea	2400
Chimborazo	Beaufort Sea	2300
Lullialluco	Yukon	2000
Alaska	Arkansas	2000
McKinley	Madeira	2000
Cotopaxi	St. Lawrence	1800
Mount Logan	Rio del Norte	1800
Mount Elias	Gulf of St Lawrence	1800
Kilimanjaro	Sah Francisco	1800
Elbrus	Atlantic	1800
Demavend	Black Sea	1725
Tolima	Euphrates	1700
Cordilleras	Persian Gulf	1700
Charles Louis	Arabian Sea	1700
New Guinea	Brahmaputra	1680
Popocatepetl	Bay of Bengal	1680
Mexico	Zambesi	1633
Ararat	Mozambique	1600
Armenia	Ganges	1500
Sangay	Bay of Bengal	1500

Most garden experts consider a once weekly heavy watering a more sensible approach; however, there are no hard and fast rules. An interesting sidelight to the subject is the rate of penetration. An inch of water penetrates approximately 12 inches in sandy soil and five inches in clay soil. As the water penetrates the surface each soil particle is filmed in water, later drawn on by plant roots. Water only penetrates deeper after soil particles at each level are filmed, clearly establishing the need for less frequent but heavier watering.

Hose watering, the most common method, is also the most inefficient. If the jet spray is used only small areas are soaked, the fine spray adjustment is little better despite its superficial result.

The stand sprinkler is a vast improvement because it can be left to do its job, leaving the gardener free to attend to other matters. To test the efficiency of a stand sprinkler, range a number of equal sized containers from the stand to the spray perimeter.

The amount of water in the containers will reveal the spray fallout and allow a watering pattern to be planned accordingly.

A variation of the stand sprinkler is the plastic pipe sprinkler which is sold in 25,

Nitrogen is a food that contributes towards leaf and stem development. With a sufficient quantity available to a plant the upper growth is healthy and strong, indicated by dark green leaves. Starved of nitrogen, plant leaves take on a characteristic yellowy-green or yellow coloured appearance.

Nitrogen is usually introduced into the soil by way of dead plant or animal matter. The three phases of nitrogen are organic, ammonia, then nitric or nitrate. As the ammonia form is a second phase of transformation it is slow acting. In its nitric phase, nitrogen is an instant fertiliser, immediately nourishing top growth.

There is nitrogen in sulphate of ammonia, nitrate of soda, nitro chalk, dried blood, bone meal and to a lesser degree in compost.

Phosphorus stimulates seedling development; root systems and early ripening. Phosphorus ions are taken in by root tips but are not always available in some acid soils because other compounds keep them insoluble.

Apply phosphorus or phosphate where it is most needed. As stated earlier, a rule of thumb is that root tips extend to the drip line, which is the outer perimeter of the upper growth. As the fertiliser is intended for root tips it is best spread in their immediate locality.

Phosphorus is contained in superphosphate, basic slag, triple phosphate, ground phosphate rock and bone meal.

Potash or potassium contributes to a plant's breathing apparatus, helps to manufacture starch and sugars, and generally helps a plant to stand up to adverse conditions.

Potassium is contained in muriate of potash, sulphate of potash, potash salts, kainit, flue dusts and wood ash.

A combination of nitrogen, phosphorus and potassium is called complete fertiliser. It is sometimes known by its chemical symbols — NPK. Complete fertilisers also contain a number of trace elements which are beneficial to soil.

It does not necessarily follow that one formula NPK mixture is suited to all types of plants. Root crops need more phosphate than leaf crops, which require nitrogen to stimulate leaf growth.

Fortunately there is an increase of complete fertilisers available for specific types of plants. The NPK ingredients are balanced in the light of scientific know-how.

Unbalanced application of NPK can produce freak plants — excess of nitrogen can make beetroot stems grow to a height of three feet, which is spectacular but unrewarding. The rules of applying fertiliser are simple — tell your dealer what the fertiliser is to be used on and follow instructions on the packet to the letter. Being over-generous with fertiliser is equally as harmful as being niggardly.

In its true perspective, fertilising the garden serves a twofold purpose — chemical fertilisers are necessary additions to the soil and organic fertilising is the partial replacement of elements removed from the soil through cropping. Organic and chemical fertilisers are complementary to each other.

#### ORGANIC FERTILISERS

A definition of organic fertilisers is animal and vegetable mature — manure, lawn cuttings, tea leaves, potato peelings and other household refuse which is readily decomposed.

Three ways of using and making organic fertiliser are by digging in animal manure; composting certain types of

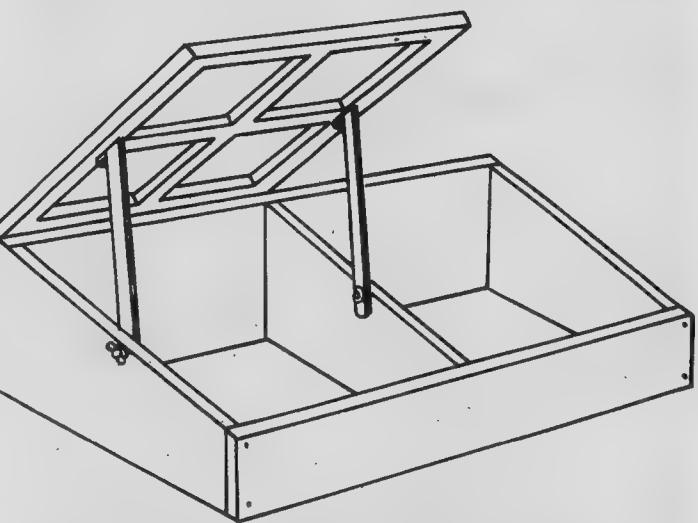
refuse, or by growing green crops and turning them into the soil before they are fully developed.

Composting in the home garden is no job for the fair weather gardener, as it requires regular attention to prevent the heap from becoming a breeding ground for flies and other pests.

Making a compost heap is simple. Construct three wooden containers adjacent to each other, about 4ft in height. Make the sides slatted to allow air to circulate.

Each container serves a purpose, the first container holds the most recently gathered matter, the second container holds the activating compost, and the third container stores the finished product, which may need to be screened to remove odd pieces of inorganic rubbish.

Keep the compost heap watered and turn it about once every three days. The three requirements for successful composting are moisture, air and bacteria. Decomposition can be accelerated with a bacterial compound sold in most plant stores.



For growing seedlings a cold frame is a gardener's friend. Both frames should be glazed

#### WAYS WITH SOIL

A few tricks of the trade can save hours of effort and puzzling. A simple way to test soil is to squeeze a handful of it, then release the pressure. If it pours away or stays in a lump, it needs amending by adding humus. Loam will break up but not to any great extent.

Small quantities of soil amendments are best spaded into soil by tilting the spade sideways to let it trickle off. Amending large areas of soil is best done by spreading the fertiliser over the surface and working it in with a rotary hoe.

Take the backache out of digging by giving the soil a thorough dousing the day before work commences.

If the soil in your garden is so poor that improvements will take years and cost a lot of money, make raised beds and border them with stone or wood.

Never spread animal manure on soil until it has been seasoned, or it may harm plants. One of the best methods is to mix the manure with soil and let it decompose before using.

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## There could be a worthwhile job for you in insurance

**A** GREAT SHIP draws out of the harbour, an aircraft disappears into a gathering cloud, a train whistles and slowly gathers momentum, a laden truck backs on to the busy highway and somewhere, intimately considered in every movement, offering security against the unexpected occurrence is a Policy of Insurance.

The story of insurance is a long one, its beginnings lost in the mists of antiquity. It is recorded that as far back as AD1500 English policies bearing striking resemblance to present ones were being issued. Even then the practice of insurance had reached an advanced stage of development. The Great Fire of London in 1666 drew attention to the real need for a policy offering protection in the event of fire loss. From those beginnings have evolved the insurances of today.

As man progresses and science advances insurance must keep pace. New methods of manufacture are evolved, new hazards are created, and a demand for a new type of insurance protection emerges. New methods of construction as discovered must be considered for their potential risk, new inventions appear and the insurance office must understand them and meet the need for a new type of cover. There can be no advances in science or commerce without the protecting hand of insurance being immediately affected. Small wonder then that, to a person who can measure up to the needs of changing times, the profession of insurance offers unparalleled interest.

### WHAT IS INSURANCE?

Take Fire insurance as an example. Imagine that there are 1000 homeowners, each of whom would stand to lose a considerable amount of money if their house burned down. If each person were to contribute a small sum into a common fund, this fund would then be available for any one of the thousand who might subsequently have cause to turn to it after a fire had occurred. This in effect is the principle of insurance. The "fund" is administered by the insurance office, who undertakes to arrange collection of the "contributions" (or premiums as they are called) and pays out to those who become entitled to make claims.

### MEETING TODAY'S NEEDS

If you ask any insurance man what he enjoys most about his work, he will most probably tell you "variety". Because of its very nature, insurance is bound up closely with every business transaction, every trade or profession, every occupation and with all kinds of property on land, sea or in the air. Insurance has in fact been described as the

"handmaiden of commerce". It is easy to understand just how far this insurance coverage extends if you look out of your window on to any busy street. You will see buildings both old and new; vehicles of different kinds, shops and businesses, with valuable stock and furnishings. Almost everything you see is protected against misfortune by some kind of insurance policy. Even the very people in the street are insured.

To be able to do his job properly, a good insurance man must be able to assess accurately the risks which are likely to be involved in any particular occupation or buildings. For example, when approached for insurance cover on a factory for making plastic products, the insurance man (or "underwriter" as he is sometimes called) must learn as much as he can about the processing of the materials involved and what production techniques are involved. He must discover whether they are likely to be inflammable, and if so, under what conditions. He must find out the construction of the building being used, what fire-fighting facilities are available, what machinery is used and what precautions are taken normally to prevent fire. He must, in fact, learn as much about somebody else's business as he can in order that he can do his own job properly.

It is this direct involvement in business and commercial life that makes insurance one of the most interesting professions. Insurance requires men of knowledge, common-sense and good judgment who are able to meet the needs of changing times and circumstances.

Adequate insurance protection is an essential part of the sound management of any modern business or household. New Zealand's growing economy provides a need for more and more skilled insurance advisers.

The large insurance Offices provide planned training and encourage their staff to seek higher educational qualifications. Better trained and qualified insurance people will ensure that New Zealanders receive value for each dollar they spend on insurance protection.

The State Insurance Office has received increasing support from the businessman, farmer and householder alike and after a very modest beginning in 1905, today has the largest share of New Zealand's insurance business.

When considering an insurance career, look for the fastest growing Office, the one which will provide the greatest opportunities and which offers the greatest encouragement to its young people.

Why not inquire whether your local STATE Office has a vacancy?



# A HUNTING WE WILL GO!

By Winifred M Willson

THAT'S the cry today, for New Zealand is something of a rock hunter's paradise and this fascinating family hobby is on the increase as never before.

I suppose if we could go back to Man's beginnings on Earth we would find that one of his earliest interests apart from his need to hunt for food and to find shelter was his search for colourful stones, for gems and pieces of beautifully marked rock. In primitive times these treasures served as a kind of currency, and the more beautiful gemstones eventually became the recognised adornment and treasure of kings and temples.

While the rarest of precious stones like diamonds and rubies are still beyond the reach of most of us, there's nothing to stop us taking up rock hunting and going out on weekend and holiday expeditions in search of semi-precious stones to be found in many parts of New Zealand, and thus acquiring our own exclusive collection.

In fact, this is probably today's most popular hobby and particularly ideal as a family interest, because the search for gemstones appeals to young and old. It involves absorbing expeditions into the country, to the beaches and the riversides, up in the hills and down in the valleys. Out in the open, you fossick and explore and picnic, and of course, you take the precaution first of taking out your own miner's licence. This is no trouble to acquire, either at your nearest Chief Post Office or from the mining warden for that particular area you want to cover. Your licence costs you the grand outlay of 50 cents!

Incidentally, if you want to cross or work on private property, such as a farm, it is only fair to request permission from the owners and to respect their rights, but just think, our laws provide you with the right to work along a chain on either side of any stream. It is all very reminiscent of the gold rush days, this modern craze for prospecting for the semi-precious stones in which New Zealand's geological formations are rich.

Because ours is a young country, precious stones are practically non-existent. There is a scale of hardness of ten minerals which defines the quality of the stones, with diamonds rating 10 because they cannot be scratched except by other diamonds. A large proportion of New Zealand's semi-precious stones have a rating of 7 for hardness, and that's quite good, only one grade lower than that recognised for precious, so it's well worth while to go rock hunting, whether you want a collection of geological interest, exhibiting your finds in the rough as you found them in little plastic cases, all neatly labelled, or whether you want to tumble and polish them and perhaps to make your own jewellery with your prettiest pieces. Many New Zealanders today are turning this fascinating hobby into a profitable one in this way.

To check on the main stones you are likely to find, and where to find them, I called on Mr E. L. Hendry of Mt. Roskill, Auckland, who is one of New Zealand's most knowledgeable and experienced rock hounds. I found him in the Rock Hound Shop in Symonds Street, where we pored over the rough lumps of rock and the beautifully polished stones which had emerged from them. I looked at rock hammers and prospector's picks and knapsacks — elementary equipment you'll need even for your first expedition — at splitting chisels and long shank chisels and at tumblers, including the kind your husband can make himself if he happens to be a handyman. Of course the more you go into it the more equipment you eventually need, but let's start at the beginning — rocks and where to find them. Mr Hendry has all the answers:

**Agate:** One of the more plentiful of semi-precious stones, this one is very popular with those who make jewellery. Agates have a hardness of 7, only one grade lower than for precious gems, remember? This stone is variable in appearance and formation, so you can hunt for moss, wood, green and iris agates. Coromandel Peninsula is probably the best place to hunt for agates but Mt Somers in Canterbury is good, and Birdlings Flat near Christchurch, although well worked over, still has possibilities.

**Amethyst:** While hunting on Coromandel or Mt Somers for agates, keep your eye open for amethysts too. Hardness of 7 again, and a most attractive stone with its purple colouring. Amethyst quartz is even prettier, being translucent with the colour washing through it.

**Bloodstone:** If names like this and agate and jasper and carnelian sound a little familiar, it could be because your grandmother spoke of them with affection. These stones were highly valued in brooches in Victorian times. Bloodstone is a rich green and gets its name from the spots of red that show through. Hardness of 7 again, and you find bloodstone in and around Thames. Quantity is not large, so the search has to be keen.

**Bowenite:** This is often classed as greenstone (New Zealand jade) but is actually a type of serpentine which looks very much like the real thing being an attractive blue-green stone which is widely used in jewellery and artifacts. Hardness is between 3 and 4. Bowenite is most readily found at Anita Bay in Milford Sound, but a more accessible source is the Cobb River Valley near Nelson, which produces a poorer grade.

**Carnelian:** This beautiful stone used to be known as cornelian and is more popular even than agate. It takes a high polish that enhances the reddish brown colour and has a hardness of 7. You find Carnelian in the Coromandel area and also from Thames northward. In the South Island the Rakaia River is a good source.

**Chalcedony:** Much more plentiful and therefore a good one for the beginner is chalcedony, which is common from Northland and Coromandel to Canterbury and Invercargill. It is a type of quartz that may be transparent or opaque, with a bumpy surface, somewhat like a tiny bunch of grapes, and has a hardness of 7.

**Citrine:** Now here's a stone rare in New Zealand, so lucky is the collector who finds it. So far only small pieces have been found and these inland from Thames. Citrine is a transparent stone with a yellow tinge, rather like a topaz and therefore very desirable. It has a hardness of 7.

**Chert:** What a crisp, unromantic name this is for a flint-like stone that is usually grey, brown or black but takes such a good polish that it can look very rich. You find it in such areas as Whangarei, Coromandel, Auckland and Dunedin.

**Flint:** Then we get flint itself which varies considerably in colour. Besides the familiar grey and black, you can also find it in brown, fawn, reds and honey tonings. Black flint is mainly found around the Thames area, whereas other colours are more readily found in Dunedin and on the east coast of the South Island. Flints have a hardness of around 7.

**Jasper:** This is an opaque type of quartz and is found in many places in New Zealand, with Thames and the Coromandel area being the most fruitful. Jasper is usually a dull red but you may be lucky and find a brown or a yellow-green. Variegated and mottled jaspers are the most common varieties and the stone has a hardness of 7.

**Nephrite:** This is New Zealand greenstone, one of the two minerals that can be classed as true jade, the other being jadeite which is not found in New Zealand. The colour is usually translucent with a green tinge, the exquisite emerald

green being the most popular and, alas, the most difficult to find. However, West Coasters have this highly valued stone practically to themselves, and it is to the West Coast of the South Island you must go in search of greenstone which has a hardness of only a little more than 6.

**Obsidian:** This natural volcanic rock is found in large quantities in the Taupo-Rotorua area. It originated as a molten liquid but cooled off so quickly that there simply wasn't time for it to crystallise into a kind of glass. In New Zealand it is found in rather subdued colours like grey, black, brown or a mottling of these. With only a hardness of 5, it is not the best for jewellery, but can look very attractive when polished, and if you live anywhere near the middle of the North Island here's one stone you can probably find plenty of.

**Opal:** Often associated with bad luck, it's a piece of really good luck if you manage to find the real thing which is rare in New Zealand and only to be found in thermal areas. Lesser grades, however, are to be found in the Rotorua-Taupo area, in Northland and around Thames and the Coromandel Peninsula. New Zealand opal has many colours, but with a hardness between 5 and 6 is too brittle for jewellery, alas.

**Schists:** We hear a lot about schists nowadays, but mostly in connection with large pieces used for fireplaces and decorative stonework for houses and other buildings. It can be found in very pretty colourings, blue in Westland, for instance, pink and green around Queenstown. Hardness ranges between 5 and 7, but schist is not suitable for jewellery, being slate-like and easily split.

**Quartz:** This is a stone which is plentiful throughout



Mrs N. Murray and Mrs Y. Quartermann, members of the South Auckland Rock and Mineral Club, among the Kauaeranga Valley boulders

New Zealand, a close-grained rock which comes in many colours and is particularly good for cutting, with a hardness of 7. Coromandel is an especially fruitful area in which to search.

**Rhondite:** If you live in the vicinity of Dunedin then you'll be interested in hunting for Rhondite, a type of rock which is usually pink or pink and black. Aucklanders are likely to find it in the Thames district, but the Thames variety is often spoiled by the addition of much brown colouring. Hardness is between 5 and 6.

**Petrified wood:** Here's a stone that is both popular and readily found. It polishes beautifully, has a hardness of 7, and is fascinating just because once it was wood and now is stone. It makes beautiful jewellery and is found in many colours, particularly near Auckland, Thames, Canterbury and Invercargill.

**Serpentine:** Usually thought of in terms of fertiliser, being a mineral that is added to superphosphate, serpentine, with a hardness of only 3, is excellent for carving but useless for jewellery. The colour of the stone is usually green, or green mottled with black, and in fact it is sometimes mistaken for a variety of greenstone. It is found in quantity on the West Coast of the South Island and in Nelson. In Northland you may with luck find a paler variety.

Well, there you are, quite an extensive list of stones to seek, although the most fruitful areas are fairly localised. However, all New Zealand streams and coastal areas are likely to turn-up something interesting, and as you get more interested in rock-hunting you learn to recognise the type of area where you are likely to make the best finds. You become, in fact, amateur geologists, and this can be very helpful to schoolchildren.

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This article is only intended to give you the broadest outlines of the pleasures and possibilities of rock-hunting. For more detailed information you can turn to a number of well-written books, some of them by New Zealanders who give you the benefit of their own extensive knowledge and experience. "New Zealand Gemstones" by Lyn and Ray Cooper and published by Reed's at \$2.50 is one which Mr Hendry recommends, and another, quite comprehensive work is by W. M. Campbell.

Today there are many rock-hunters' shops throughout New Zealand and if you have one in your own locality, you will find the people there only too happy to help you with advice. Just browsing around one of these shops makes you impatient to get started. You look at all those trays of rough stones and then all the beautifully polished pieces that come from them and long to get cracking on a collection of your own. Just seeing what can be done to turn our native rocks into charming jewellery can fire you with enthusiasm if you happen to be artistic and good with your hands.

Your local museum may also be a good source for advice and information. You should find they have a section on geology and a lapidary (stone) collection.

So popular is rock-hunting that many secondary schools run night classes on the subject and here you can not only learn about the subject but also meet others interested in the same hobby. You can do this, too, by joining either the Auckland Geological and Lapidary Society Inc., P.O. Box 6275 Auckland or any one of the many other rock-hunters' clubs throughout the country. Auckland City, for instance, has five, and there are active groups in just about every centre.

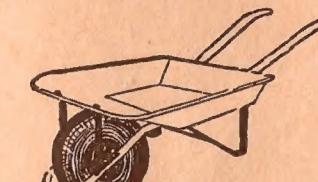
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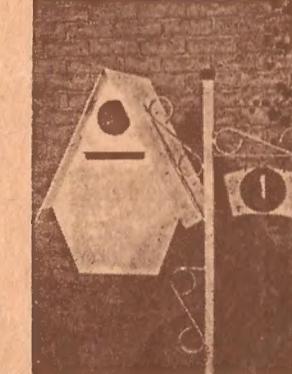


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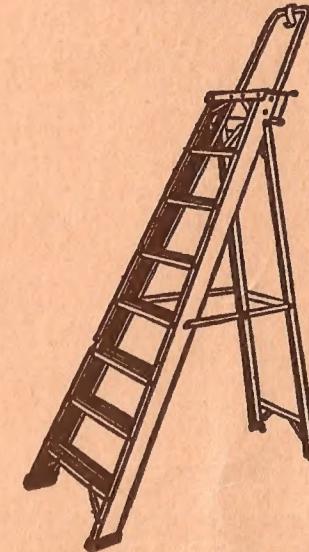
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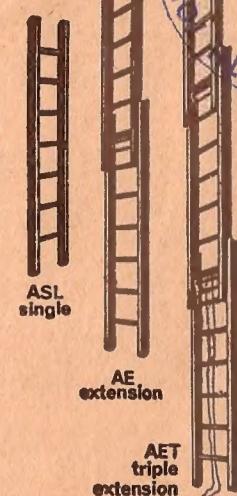
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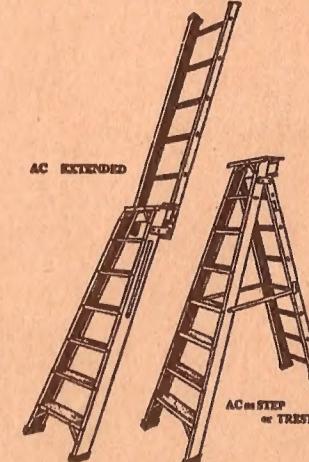
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